APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

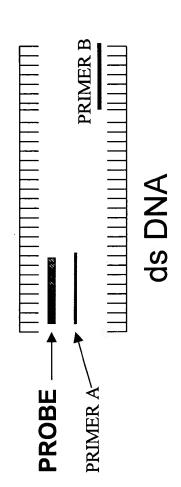
Title: Detection and Typing of Human
Papillomavirus Using PNA Probes
Inventor(s): Cohenford et al.
Serial No. Not Yet Assigned
Docket No. CYM-035 Atty: Joseph A. Capra
Express Mail No. EL653444078US

PRIMER A PROBE PRIMER B CONTROLL OF DNA

Figure

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Competitive inhibition of DNA amplification by a blocking probe

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APPROVED O.G. FIG.

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Lane 1: DNA Ladder

Lane 2: HPV DNA Strain 11, in absence of PNA

Lane 3: HPV DNA Strain 16, in absence of PNA
Lane 4: HPV DNA Strain 18,

Lane 4: HPV DNA Strain 18 in absence of PNA

Lane 5: HPV DNA Strain 11 in presence of PNA I

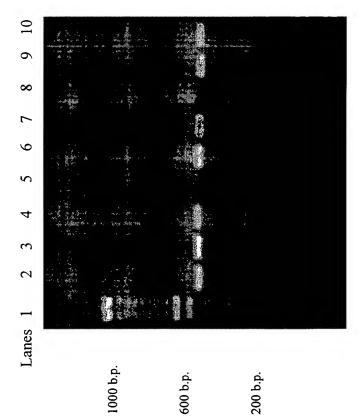
Lane 6: HPV DNA Strain 16 in presence of PNA I

Lane 7: HPV DNA Strain 18 win presence of PNA I

Lane 8: HPV DNA Strain 11 in presence of PNA II

Lane 9: HPV DNA Strain 16 in presence of PNA II

Lane 10: HPV DNA Strain 18 in presence of PNA II



## Selective PCR amplification of HPV DNA using PNA blocking probes

## Figure 3

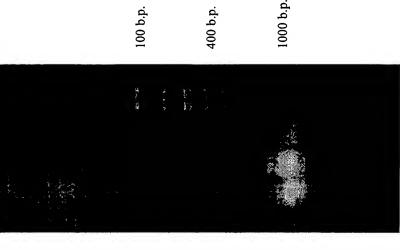
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Lane 1- DNA negative control

Lane 2- HPV DNA Strain 18 in presence of 1 uM PNA III Lane 3- HPV DNA Strain 18 in presence of 10uM PNA III

Lane 4-HPV DNA Strain 18 in absence of PNA III

Lane 5- DNA ladder



1000 b.p.

Effect of PNA concentration on HPV DNA (STRAIN 18) PCR

Figure 4

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Lanes